

MATERIAL DATASHEET

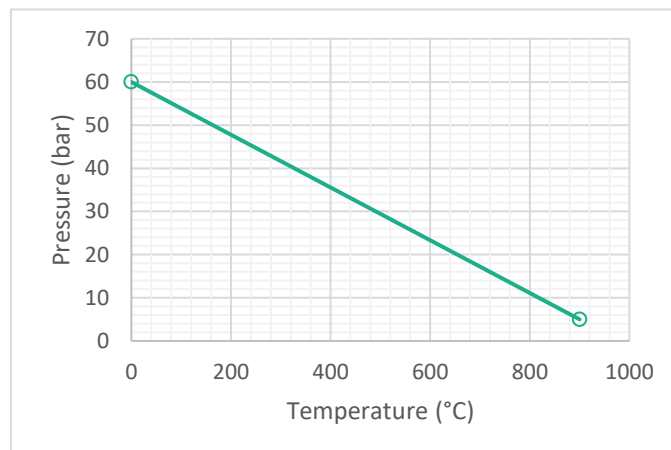
V. 2/2023

MICASEAL SUNIFLEX

Material Information	
Manufacturer	Planichem
Composition	Mica, tanged 316L steel insert
Applications	High Temperature Applications
Approvals	API Fire Safe
Colour	Beige
Thickness (mm)	1,3; 2,0; 3,0 (two inserts in 3,0 mm)
Sheet dimensions (mm)	1 000 x 1000, 1 500 x 1 500

Technical Data		
Density, (g/cm ³)	Compressibility, DIN 3535-6 (%)	Recovery, DIN 3535-6 (%)
1,65-1,95	> 16	> 3
Tensile strength, ASTM F152 (MPa)	Stress resistance, DIN 52913 (MPa)	Specific leak rate, DIN 3535-6 (mg/s·m)
not defined	not defined	< 0,1
Thickness increase, ASTM F146 (%)	Compression modulus, DIN 28090-2 (%)	Creep relaxation, DIN 3535-6 (%)
not defined	not defined	< 12
Peak temperature (°C/°F)	Continuous temperature (°C/°F)	Maximum pressure (bar/psi)
1 000/1 832	900/1 652	60/870

pT-diagram



- General suitability
- Limited suitability
- Not recommended

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Recommended Media			
Acetic acid	Dichlorobenzene	Methylene chloride	Sulphuric acid
Acetone	Dye liquor	Mineral oil	Tar
Acetylene	Ethyl acetate	Mobiltherm	Turpentine
Acrylic acid	Ethyl alcohol	Naphtalene	Toluene
Acrylonitrile	Ethylene glycol	Natural gas	Town gas
Air	Ethylene oxide	Nitric acid	Transformer oil
Alkaline lye	Ethyl ether	Nitrogen	Tributyl phosphate
Aluminium chloride	Ethylene	Oleum	Triethanolamine
Ammonia	Ethylene chloride	Oxygen	Urea
Amyl acetate	Fatty acids	Paraffin	Vegetable oil
Amyl alcohol	Ferric chloride	Pentachlorophenol	Vinyl acetate
Aniline	Formaldehyde	Perchloric acid	Vinyl chloride
Aviation fuel	Formic acid	Petroleum	Vinylidene chloride
Beer	Freons	Phenol	Water
Benzene	Gas oil	Phosgene	Whiskey
Benzoyl chloride	Gasoline	Phosphoric acid	White spirit
Biphenyl	Heating oil	Pthalic anhydride	Zylene
Blast furnace gas	Hydraulic oil (glycol)	Potassium hydroxide	
Bleach	Hydraulic oil (mineral)	Potassium hydroxide	
Boiler feed water	Hydrazine	Potassium nitrate	
Brine	Hydrocarbons	Potassium permanganate	
Calcium chlorate	Hydrochloric acid	Producer gas	
Capro-lactam	Hydrogen	Pyridine	
Carbolic acid	Hydrogen chloride	Sea water	
Carbon dioxide	Hydrogen peroxide	Silicone oil	
Carbon disulphide	Hydrogen sulfide	Soda ash	
Carbon monoxide	Isopropyl acetate	Sodium bi-carbonate	
Carbon tetrachloride	Isopropyl alcohol	Sodium carbonate	
Chile saltpetre	Kerosene	Sodium cyanide	
Chlorine	Lime	Sodium hydroxide	
Chlorinated hydrocarbons	Lubrication oil	Sodium hypochlorite	
Chloroacetid acid	Machine oil	Sodium nitrate	
Chloro benzene	Magnesium sulphate	Starch	
Chromic acid	Malic acid	Steam	
Copper sulfates	Methane	Steam condensate	
Creosote	Methyl acrylate	Styrene	
Cresol	Methyl alcohol	Sulphur	
Crude oil	Methyl isobutyl ketone	Sulphur dioxide	
Cyclohexanol	Methyl methacrylate	Sulphur trioxide	